AUG 1 9 2005 JULY			2189			
TRANSMITTAL F		Application No.	09/981,620			
TRANSIVIIIIAL F	URIVI	Filing Date	October 16, 2001			
(to be used for all correspondence aft	er initial filing)	First Named Inventor	Richard L. Coulson			
		Art Unit	2189			
		Examiner Name	K. Verbrugge			
Total Number of Pages in This Submiss	ion 11	Attorney Docket Number	42390P11456			
ENCLO	SURES (chec	k all that apply)				
Fee Transmittal Form	Drawing(s))	After Allowance Communication to Group			
Fee Attached	Licensing-r	related Papers	Appeal Communication to Board of Appeals and Interferences			
Amendment / Response	Petition		Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)			
After Final Affidavits/declaration(s)	Petition to Provisional	Convert a Application	Proprietary Information			
Extension of Time Request	Power of Attorney, Revocation Change of Correspondence Address		Status Letter			
Express Abandonment Request	Terminal Disclaimer		Other Enclosure(s) (please identify below):			
Information Disclosure Statement	Request for Refund		31 cited references return postcard			
PTO/SB/08	CD, Numbe	er of CD(s)				
Certified Copy of Priority Document(s)						
Response to Missing Parts/ Incomplete Application Basic Filing Fee Declaration/POA	Remarks					
Response to Missing Parts under 37 CFR 1.52 or 1.53						
SIGNATUR	E OF APPLICA	NT, ATTORNEY, OR AG	GENT			
Firm Paul A. Mendo		•				
Individual name BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP						
Signature June 17 2005						
Date August 17, 20	U3					
		LING/TRANSMISSION	Consider on the data above halowed			
I hereby certify that this correspondence is to sufficient postage as first class mail in an er 22313-1450.						
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FÉERATRANSMITTAL for FY 2005

Patent fees are subject to annual revision.

Applicant claims small entity status.	See 37 C	FR 1.27.
TOTAL AMOUNT OF PAYMENT	(\$)	180.00

Complete if Known						
Application Number 09/981,620						
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First Named Inventor	Richard L. Coulson					
Examiner Name	K. Verbrugge					
Art Unit	2189					
Attorney Docket No.	42390P11456					

METHO	METHOD OF PAYMENT (check all that apply)								
★ Check Credit card Money Order None Other (please identify):									
Deposit Account Deposit Account Number: 02-2666 Deposit Account Name: Blakely, Sokoloff, Taylor & Zafman LLP									
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge any additional fee(s) or underpayment of fee(s) Under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.									
FEE CALCU	LATION								
Large Er	ntity	Small	Entity						
Fee	Fee	Fee	Fee	Fee Description	Fee Paid				
Code	(\$)	Code	(\$)	i ee bescription	ree raiu				
1051	130	2051	65	Surcharge - late filing fee or oath					
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.					
2053	130	2053	130	Non-English specification					
1251	120	2251	60	Extension for reply within first month					
1252	450	2252	225	extension for reply within second month					
1253	1,020	2253	510	Extension for reply within third month					
1254	1,590	2254	795	Extension for reply within fourth month					
1255	2,160	2255		Extension for reply within fifth month					
1401	500	2401		Notice of Appeal					
1402	500	2402		Filing a brief in support of an appeal					
1403	1,000	2403		Request for oral hearing					
1451	1,510	2451		Petition to institute a public use proceeding					
1460	130	2460		Petitions to the Commissioner					
1807	50	1807		Processing fee under 37 CFR 1.17(q)					
1806	180	1806		Submission of Information Disclosure Stmt 180.00					
1809	790	1809	395	Filing a submission after final rejection (37 CFR § 1.129(a))					
1810	790	2810		For each additional invention to be examined (37 CFR § 1.129(b))					
Other f	ا ee (spe	ı cify) _							
				SUBTOTAL (2) (\$)	180.00				

SUBMITTED BY Complete (if applicable)					
Name (Print/Type)	Paul A. Viendonsa	Registration No. (Attorney/Agent)	42,879	Telephone	(503) 439-8778
Signature	Held Wandens			Date	08/17/05

Docket No.: 42390P11456

THE UNITED STATES PATENT AND TRADEMARK OFFICE

pplication of:

RICHARD L. COULSON

Application No.: 09/981,620

Filed: October 16, 2001

For: MASS STORAGE CACHING

PROCESSES FOR POWER REDUCTION

Art Group: 2189

Examiner: K. Verbrugge

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of IDS Citation Form PTO/SB/08 or PTO-1449, together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed). This IDS and IDS Citation Form are being submitted before the mailing of a final Office Action. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

-1-

08/22/2005 MBERHE 00000032 09981620

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42390P11456

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

The fee set in the amount of \$180.00 for submission of the Information Disclosure Statement is enclosed herewith. Please charge any additional fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

BLAKE , SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: August 17, 2005

Paul A Mendansa Reg No. 42 8

12400 Wilshire Boulevard, 7th Floor Los Angeles, CA 90025 Telephone: (503) 439-8778

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 6

Complete if Known					
Application Number	09/981,620				
Filing Date	October 16, 2001				
First Named Inventor	Richard L. Coulson				
Art Unit	2189				
Examiner Name	K. Verbrugge				
Attorney Docket Number	42390P11456				

		····	U.S. PATE	ENT DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number - Kind Code ² (if known)	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-4,908,793	03-13-1990	Yamagata, et al.	
	1	US-4,972,364	11-20-1990	Barrett, et al	
		US-5,046,043	09-03-1991	Miller, et al	
		US-5,133,060	07-21-1992	Weber et al	
		US-5,269,019	12-07-1993	Peterson et al	
		US-5,274,799	12-28-1993	Brant et al	
		US-5,353,430	10-04-1994	Lautzenheiser	
		US-5,444,651	08-22-1995	Yamamoto et al	
		US-5,466,629	11-14-1995	Mihara et al	
	1	US-5,526,482	06-11-1996	Stallmo et al	
		US-5,542,066	07-30-1996	Mattson et al	
		US-5,586,291	12-17-1996	Lasker et al	
	•	US-5,604,881	02-18-1997	Thomas	
		US-5,615,353	03-25-1997	Lautzenheiser	
		US-5,701,516	12-23-1997	Cheng et al	
		US-5,754,888	05-19-1998	Yang et al	
		US-5,764,945	06-09-1998	Ballard	
	1	US-5,918,244	06-29-1999	Percival	
	!	US-6,025,618	02-15-2000	Chen	
	1	US-6,052,789	04-18-2000	Lin	

	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite	Foreign Patent Document			Pages, Columns, Lines,			
	No.¹	Country Code - Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear			
	-	EP 0 210 384	02-24-1987	HEWLETT PACKARD				
		GB 2 210 480	06-07-1989	Sun Microsystems				
	,	WO 93/21579	10-28-1993	Storage Technology				
	<u>.</u>	JP 6-236241	08-23-1994	Sharp				
	1	WO 02/01364 A2	01-03-2002	Intel				
		WO 02/01364 A3	01-03-2002	Intel				
		WO 02/01365 A2	01-03-2002	Intel				
.		WO 02/01365 A3	01-03-2002	Intel				
		WO 03/003202 A1	01-09-2003	Intel				
		WO 03/003217 A2	01-09-2003	Intel				

Examiner	!	Date
Signature		Considered

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003.

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

^{&#}x27;Applicant's unique citation designation number (optional)'See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04:Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).'For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possibf&pplicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 6

Complete if Known					
Application Number	09/981,620				
Filing Date	October 16, 2001				
First Named Inventor	Richard L. Coulson				
Art Unit	2189				
Examiner Name	K. Verbrugge				
Attorney Docket Number	42390P11456				

	U.S. PATENT DOCUMENTS							
Examiner (Cite No.¹	Document Number Number - Kind Code² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
	!	US-6055180	04-25-2000	Gudesen et al				
	1	US-6064615	05-16-2000	Gudesen				
	i	US-6081883	06-27-2000	Popelka et al				
		US-6101574	08-08-2000	Kumasawa et al				
	-	US-6122711	09-19-2000	Mackenthun et al				
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		US-6539456	03-25-2003	Stewart				
		US-6564286	05-13-2003	Decosta				
		US-6662267	12-09-2003	Stewart				
		US-6670659	12-30-2003	Gudesen et al				
:		US-6725342	04-20-2004	Coulson				
		US-6785767	08-31-2004	Coulson				
		US-6839812	01-04-2005	Royer, Jr. et al				
		US-6920533	07-19-2005	Coulson et al				
		US-20020083264	06-27-2002	Coulson				
		US-20030005219	01-02-2003	Royer, Jr. et al				

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite	Foreign Patent Document			Pages, Columns, Lines,		
	No.1	Country Code - Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear		
		WO 03/003217 A3	01-09-2003	Intel			
		WO 03/034230 A1	04-24-2003	Intel			
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Examiner	Date
Signature	Considered

'Applicant's unique citation designation number (optional):See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04:Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3):For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possib@applicant is to place a check mark here if English language Translation is attached.

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AUG 1 9 2005 55	·		
Substitute for the 1449A/PTO	Complete if Known		
INFORMATION DISCLOSURE	Application Number	09/981,620	
INTORIVIATION DISCLOSURE	Filing Date	October 16, 2001	
STATEMENT BY APPLICANT	First Named Inventor	Richard L. Coulson	
(use as many sheets as necessary)	Art Unit	2189	
	Examiner Name	K. Verbrugge	
Sheet 3 of Ce	Attorney Docket Number	42390P11456	

	U.S. PATENT DOCUMENTS					
Examiner (Initials*	Cite No.'	Document Number Number - Kind Code² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
į	ļ	US-20030005223	01-02-2003	Coulson et al		
		US-20030046493	03-06-2003	Coulson		
		US-20030084239	05-01-2003	Stewart		
		US-20030120868	06-26-2003	Royer, Jr. et al		
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		US-20040162950	08-19-2004	Coulson		
1		US-20040225826	11-11-2004	Royer, Jr. et al		
		US-20040225835	11-11-2004	Coulson		
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	FOREIGN PATENT DOCUMENTS						
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known					
Application Number	09/981,620				
Filing Date	October 16, 2001				
First Named Inventor	Richard L. Coulson				
Art Unit	2189				
Examiner Name	K. Verbrugge				
Attorney Docket Number	42390P11456				

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.¹						
		Auciello, Orlando, et al., "The Physics of Ferroelectric Memories", Physics Today, pp. 22-27 (Jul. 1998).					
		Date, M., et al., "Opto-Ferroelectric Memories Using Vinylidene Fluorode Copolymers", IEEE, pp. 298-302 (1988).					
		Hodges, David A., et al., "Analysis and Design of Digital Integrated Circuits", McGraw-Hill, Inc., pp. 388-389 (1983).					
		Derwent Abstract, Derwent Accession No. 2000-348269, Patent Publication No. RD 431135 A, 3 pages (March 10, 2000).					
		IBM Technical Disclosure Bulletin, "Non-Volatile Cache Storage Allocation Algorithm", Vol. 38, No. 12, pp. 39-41 (Dec. 1995).					
		Lang, Sidney B., et al., "Pyroelectric Applications of Ferroelectric Polymers", IEEE, pp. 251-255 (1988).					
		Merz, W. J., et al., "Ferroelectric Storage Devices", Bell Laboratories Record, pp. 335-337, 339-342 (Sep. 1955).					

Examiner	Date
Signature	Considered

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

^{&#}x27;Applicant's unique citation designation number? Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE				Complete if Known		
				Application Number	09/981,620	
INFO	RIVIATION	MOCE	JOURE	Filing Date	October 16, 2001	
STAT	EMENT BY	APPL	ICANT.	First Named Inventor	Richard L. Coulson	
				Art Unit	2189	
			1	Examiner Name	K. Verbrugge	
Sheet	5	of	(0	Attorney Docket Number	42300P11456	

42390P11456

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²				
		Moazzami, Reza, et al., "A Ferroelectric DRAM Cell for High-Density NVRAM's", IEEE Electron Device Letters, Vol. 11, No. 10, pp. 454-456 (Oct. 1990).					
		Pulvari, C.F., "Ferroelectrics and their Memory Applications", IRE Transactions - Component Parts, pp. 3-11 (Mar. 1956).					
		Ramtron, FM1608 Preliminary Datasheet, Ramtron International Corporation, Colorado Springs, Colorado, pp. 1-12 (Dec. 7, 1999).					
		Ramtron, FM24C64 Preliminary Datasheet, Ramtron International Corporation, Colorado Springs, Colorado, pp. 1-13 (Dec. 7, 1999).					
		Ramtron, FRAM Technology, Ramtron International Corporation, Colorado Springs, Colorado, 2 pages (Jan. 1994).					
		Ramtron, "Replacing a Dallas Semiconductor DS1225 with FRAM Memory", Application Note, Ramtron International Corporation, Colorado Springs, Colorado, pp. 1-2 (Feb. 1994).					
		Robertson, Jack, "Hyundai Enters Japanese-dominated FeRAM Market", Silicon Strategies, A Service of Semiconductor Business News, CMP Media Inc., www.siliconstrategies.com (Sep. 3, 1998).					

Examiner	·	Date	
Signature		Considered	

Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003. Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 6 of 6

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Attorney Docket Number	42390P11456	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.'	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²	
		U.S. Patent Application No. 09/602,008, entitled "In-Line Cache", by Richard Coulson, filed June 23, 2000.		
: :		U.S. Patent Application No. 09/602,009, entitled "Non-Volatile Cache Expansion Board", by Richard Coulson, filed June 23, 2000.		
; ; ;		U.S. Patent Application No. 09/602,010, entitled "Non-Volatile Cache", by Richard Coulson, filed June 23, 2000.		
 	·	U.S. Patent Application No. 09/602,011, entitled "Non-Volatile Cache Integrated with Mass Storage Device", by Richard Coulson, filed June 23, 2000.		
	!	White, Ron, "How Computers Work", Ziff-Davis Press, pp. 71-73 (1993).		
	·			

Examiner	Dat	e
Signature	Cor	nsidered

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